Title (en)

Rotary positive displacement pump

Title (de)

Rotationsverdrängerpumpe

Title (fr)

Pompe rotative à déplacement positif

Publication

EP 0870925 A3 20000126 (DE)

Application

EP 98106193 A 19980404

Priority

DE 29706606 U 19970412

Abstract (en)

[origin: EP0870925A2] The pump has a stator (1) with holding down member (6) and base plate (3) which has in its surface a ring face which has an inlet (13) and outlet (15). In the transition area between ring face and outlet the stroke of the membrane (11) is smaller than in the remaining area of the pump channel (12). The stroke of the last pressure transfer members (14a-d) on the outlet side is less than that of the remaining pressure transfer members. The membrane is permanently deflected through a part (14d) mounted in the transition area or above the outlet and projecting in the direction of the base plate.

IPC 1-7

F04B 43/14

IPC 8 full level

F04B 43/00 (2006.01); **F04B 43/12** (2006.01); **F04B 43/14** (2006.01); **F16F 9/14** (2006.01)

CPC (source: EP)

F04B 43/0054 (2013.01); **F04B 43/12** (2013.01); **F04B 43/1269** (2013.01); **F04B 43/14** (2013.01); **F16F 9/145** (2013.01)

Citation (search report)

- [DY] DE 29609865 U1 19961024 - KAMMERER ROLF [DE]
- [Y] US 4648812 A 19870310 - KOBAYASHI SUSUMU [JP], et al
- [Y] DE 29511966 U1 19950928 - KAMMERER ROLF [DE]
- [Y] DE 19529894 A1 19970220 - DOERING GMBH [DE]
- [A] US 4909710 A 19900320 - KAPLAN DAVID E [US], et al
- [A] EP 0026704 A1 19810408 - BOEUF LOLA LE [FR]
- [E] DE 19715250 A1 19981015 - INOTEC GMBH [DE]

Cited by

US7775780B2; EP1810702A1; AU2007200225B2; KR100964053B1; US8079836B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 29706606 U1 19970821; AT 228209 T 20021215; DE 59806311 D1 20030102; EP 0870925 A2 19981014; EP 0870925 A3 20000126; EP 0870925 B1 20021120

DOCDB simple family (application)

DE 29706606 U 19970412; AT 98106193 T 19980404; DE 59806311 T 19980404; EP 98106193 A 19980404